

$$1) \quad x^2 + 4x - 32$$

(A) (m)

$$(x+8)(x-4)$$

$$2) \quad 3x^2 - 3x - 90$$

$$3(x^2 - x - 30)$$

$$3(x-6)(x+5)$$

$$3x^2 - 3x - 90$$

$$\begin{array}{r} 3x^2 - 18x \quad + 15x - 90 \\ \hline 3x(x-6) \quad + 15(x-6) \end{array}$$

$$(x-6)(3x+15)$$

$$3(x-6)(x+5)$$

ac = -270
b = -3

5) $24x^2y + 34xy + 12y$

$2y(12x^2 + 17x + 6)$ $ac=72$
 $b=17$

$$\begin{array}{r} 12x^2 + 8x + 9x + 6 \\ \hline 4x(3x+2) + 3(3x+2) \end{array}$$

$2y(3x+2)(4x+3)$

* 8)

$$24x^2 - 6xy - 9y^2$$

$$3 (8x^2 - 2xy - 3y^2)$$

$$ac = -24$$
$$b = -2$$

$$\begin{array}{r|l} 8x^2 - 6xy & +4xy - 3y^2 \\ \hline 2x(4x-3y) & +y(4x-3y) \end{array}$$

$$3 (4x-3y) (2x+y)$$